

INTERNATIONAL SEARCH REPORT

International Application No
T/US2004/027076

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K38/18 A61P19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, PAJ, BIOSIS, MEDLINE, EMBASE, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 302 847 A (THE UNIVERSITY OF MARYLAND AT BALTIMORE; MINNESOTA MINING AND MANUFACT) 8 February 1989 (1989-02-08)	1-6, 8, 9, 12, 25-36, 39-48, 51, 83-89, 92-98
Y	page 2, line 52 - page 3, line 21	1-98
X	WO 93/00935 A (BRITISH TECHNOLOGY GROUP LTD) 21 January 1993 (1993-01-21)	1-6, 8, 9, 12, 25-36, 39-48, 51, 83-89, 92-98
Y	claim 9; example 3	1-98
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *G* document member of the same patent family

Date of the actual completion of the international search

17 March 2005

Date of mailing of the international search report

29/03/2005

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INTERNATIONAL SEARCH REPORT

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PCT/US2004/027076

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	UEMURA T ET AL: "Transplantation of cultured bone cells using combinations of scaffolds and culture techniques" BIOMATERIALS, ELSEVIER SCIENCE PUBLISHERS BV., BARKING, GB, vol. 24, no. 13, June 2003 (2003-06), pages 2277-2286, XP004420018 ISSN: 0142-9612	1-6,8,9, 12, 25-36, 39-48, 51, 83-89, 92-98
Y	page 2283, left-hand column	1-98
X	SAUK JOHN J ET AL: "Use of a phosphophoryn-Ca ²⁺ -collagen composition that mimics a mineralization front in uniaxial defects in long bones" JOURNAL OF BIOMEDICAL MATERIALS RESEARCH, WILEY, NEW YORK, NY, US, vol. 25, 1991, pages 609-619, XP002967764 ISSN: 0021-9304	1-6,8,9, 12, 25-36, 39-48, 51, 83-89, 92-98
Y	page 617	1-98
Y	RITCHIE H H ET AL: "SIX DECADES OF DENTINOGENESIS RESEARCH HISTORICAL AND PROSPECTIVE VIEWS ON PHOSPHOPORYN AND DENTIN SIALOPROTEIN" EUROPEAN JOURNAL OF ORAL SCIENCES, MUNKSGAARD INTERNATIONAL PUBLISHERS, COPENHAGEN, DK, vol. 106, no. SUPPL 1, 1998, pages 211-220, XP009025035 ISSN: 0909-8836 page 213, left-hand column, last paragraph	1-98
Y	WO 95/24210 A (GENETICS INSTITUTE, INC) 14 September 1995 (1995-09-14) the whole document	10,11, 22,23, 37,38, 49,50, 62,63, 78,79, 90,91

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 1-82 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT
Information on patent family members

International Application No
PCT/US2004/027076

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0302847	A	08-02-1989	US 4780450 A	25-10-1988
			AU 2008888 A	20-04-1989
			EP 0302847 A2	08-02-1989
			JP 1236058 A	20-09-1989
WO 9300935	A	21-01-1993	EP 0595863 A1	11-05-1994
			WO 9300935 A1	21-01-1993
			JP 6508780 T	06-10-1994
			US 5674725 A	07-10-1997
WO 9524210	A	14-09-1995	AU 1734895 A	25-09-1995
			TW 426519 B	21-03-2001
			WO 9524210 A1	14-09-1995
			US 6620406 B1	16-09-2003